

CLAIMS

1. "SECRETION SUCTIONING  
DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS",  
characterized in that it comprises a suctioning valve (1)  
5 defined by a body (2) provided with a chamber (3), where a  
selecting obstruction device is assembled (4), formed by a  
pin (5) triggered by an upper button (6), which acts  
against the action of a spring (7); the chamber (2)  
comprises a channel selector (71) below pin 5, which is  
10 designed to be occupied by said pin inferior rim (72), such  
condition occurring when suctioning valve is triggered (1),  
being that the angle between the chamber (3) and a  
connection (11) causes the o-rings (8) to always be in a  
sealed position, either the valve (1) being under its  
15 triggering or rest condition; the pin (5) is provided with  
ring neckings (9) on which the sealing o-rings are  
assembled (8), which are assembled above and below a  
passage opening (10) through which the secretion passes in  
the vacuum application moment; such a device is provided  
20 with an internal channel (13), that crosses the suctioning  
valve (1) body (2), said body (2) is further provided with  
a rim connection (14) provided externally with a thread  
(15), to which is threaded a tightening element (16), used  
to produce the interconnection component (17) coupling,  
25 used to produce the plastic sheating (18) imprisonment,  
said interconnection component (17) basically comprises  
three regions defined as anterior (19), median (20) and  
posterior (21), each one of which with a specific object,

being that the anterior region (19) is provided with ring ribs (22) preferably in three, that act as a sealing means regarding the internal wall external connection (14); the median region (20) incorporates an outlining external wall, with an adequate profile to tightly bind the tightener element (16), allowing the interconnection component (17) to be dislocated axially, thus producing its fixation along the suctioning valve (1) body (2); posterior region (21) incorporates a trunk configuration ending (23), that acts as an adequate place for the plastic sheathing positioning (18), being that said ending (23) the positioning place for a retention ring (24), that guaranties sealing and tight positioning of said sheathing (18); the interconnection component (17) internally receives the rim of a probe (25), that, depending on its gauge may be assembled either on a tie rod (26), and has the objective of allowing probe use (25) with more than a external diameter measure; the device is further provided with a terminal (30), equipped with a casing (31), where a set of sealing rings (32) is assembled, which is formed by two stiff rings (33), between which a flexible ring (34) is assembled; said casing (31) is closed by a component (35) that adequately presses the ring set (32) and also acts as a plastic sheathing anterior rim (18) fixture, being that for the latter object it is provided in said component (35), a trunk ending (36) with a configuration identical to the other trunk ending (23); the trunk ending (36) receives a retention ring (37), identical to the other retention ring (24), assembled on the plastic

sheating (18) opposed rim.

2. "SECRETION SUCTIONING  
DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as  
claimed in 1, characterized in that the suctioning valve  
5 (1) may be conveniently locked, which prevents the pin (5)  
from being inadvertently triggered, accidentally  
communicating the vacuum in said device.

3. "SECRETION SUCTIONING  
DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as  
10 claimed in 1, characterized in that the connection (11)  
incorporates a progressive staggering (12), which allows  
the use of varied diameters of vacuum lines.

4. "SECRETION SUCTIONING  
DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as  
15 claimed in 1 and 3, characterized in that the connection  
(11) crosses the chamber (3), and is aligned with an  
internal channel (13), that crosses the suctioning valve  
(1) body (2).

5. "SECRETION SUCTIONING  
20 DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as  
claimed in 1, characterized in that the tie rod (26) is  
provided with a external diameter standardized to allow the  
introduction into an interconnection component (17), in  
addition to being provided with two internal diameter  
25 measures to receive the probe (25), being able to use two  
different probe gauges with the use of the tie rod (26),  
and two other different gauges without the use of the above  
mentioned tie rod (26).

6. "SECRETION SUCTIONING  
DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as  
claimed in 1, characterized in that the probe (25) is  
provided with a graduation (27), which is representative of  
5 its measure length, being that on the above mentioned probe  
(25) a limiting and marking way (28) is assembled, which  
may be dislocated along said probe.

7. "SECRETION SUCTIONING  
DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as  
10 claimed in 6, characterized in that the limiting and  
marking means (28) is provided with opposed protuberances  
pair (29), which act in order to produce a relative locking  
effect on the external wall of the probe (25), said opposed  
protuberances pair (29) thus guaranties a determined effort  
15 value to produce the limiting and marking means (28)  
dislocation.

8. "SECRETION SUCTIONING  
DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as  
claimed in 1, characterized in that the terminal (30) is  
20 provided with an instillation route (38) defined by a  
radial tubular projection (38) that starts from the  
terminal wall (30), and receives the tubular sector  
coupling (40), which incorporates a closing cap (41); the  
terminal (30) presents a connection (42) that externally  
25 receives a tightering element (43), used to produce the  
coupling of sphere valve (45) body (44).

9. "SECRETION SUCTIONING  
DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as

claimed in 8, characterized in that the instillation route (38) is provided with a diaphragm (73).

10. "SECRETION SUCTIONING DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as  
5 claimed in 8, characterized in that the tightening element (43) acts on a thread (46) incorporated in a tubular projection (47) provided on the sphere valve (45) body (44); the sphere valve (45) body (44) is divided into two portions (48) and (49), each one of these incorporating  
10 half of the chamber (50) that covers the sphere shaped element (51), which is formed by a central section (52) equipped with a transversal channel (53), and by two supplementary sections (54); the sphere shaped element (51) is driven by an external and upper handle (55) which can be  
15 turned along an angular range of 90 degrees between two basic positions, that determine whether the transversal channel (53) is aligned or not with the longitudinal geometric axis of the sphere valve (45) body of the valve (44).

20 11. "SECRETION SUCTIONING DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as claimed in 10, characterized in that the sphere valve (45) has the function of isolating the internal environment in which it the probe (25) is found, allowing or not its  
25 passage towards the patient/ventilator connection (56).

12. "SECRETION SUCTIONING DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as claimed in 10 and 11, characterized in that the sphere

valve (45) presents a color code that eases its operational condition visualization, i. e., whether open or closed to the probe (25) passage.

13. "SECRETION SUCTIONING  
5 DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as claimed in 12, characterized in that the color code is defined by the fact that the central section (52) present a different coloring from the two supplementary sections (54).

10 14. "SECRETION SUCTIONING  
DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as claimed in 13, characterized in that in a preferred combination for the sphere valve (45) color code, the central section (52) of the sphere shaped element presents  
15 a green color, and the corresponding supplementary sections (54) present a red color.

15. "SECRETION SUCTIONING  
DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as claimed in 11, characterized in that the patient/ventilator  
20 connection (56) is provided with a derivation (57) that communicates the ventilating equipment, said connection (56) is further provided with another connection (58) which is connected to the patient's coupling tube.

16. "SECRETION SUCTIONING  
25 DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as claimed in 15, characterized in that the derivation (57) is incorporated in a manner as to present an inclination angle that helps maintain of a non turbulent laminar air flow.

21. "KIT PROVIDED WITH A  
SECRETION SUCTIONING DEVICE FOR INTUBATED OR

TRACHEOSTOMIZED PATIENTS", intended for the assembly of a device for the tracheal secretion suctioning of intubated or tracheostomized patients, characterized in that said kit (63) is provided with a package (64) that covers, in addition to the suctioning device, elements that help in its disposal after use, those elements being a plastic sheating (65) and a tube (66), the latter being used to connect both device endings; package 64 presents defined spaces and divided by divisor walls (67), allowing each covered element to occupy a previous studied place.

22. "KIT PROVIDED WITH A SECRETION SUCTIONING DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as claimed in 21, characterized in that it presents a structure (68), where a determined number of packages (64) can be adequately stored, said structure (68) is provided with one or two parallel horizontal bars (69) that act as a hanger for the packings.

23. "KIT PROVIDED WITH A SECRETION SUCTIONING DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as claimed in 22, characterized in the structure (68) incorporates a frontal panel (70) in which the instructions are presented for use of such suctioning device.

24. "KIT PROVIDED WITH A SECRETION SUCTIONING DEVICE FOR INTUBATED OR TRACHEOSTOMIZED PATIENTS", as claimed in 21, characterized in that it is able to incorporate, separately or jointly, three accessories (F), (F') and (F''), that respectively



represent an endotracheal tube fixture, a humidifying filter, and a secretion collection flask, those being able to occupy a defined space (E) in the interior of the package (64).

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